

MANGANESE DIOXIDE (CR SERIES) LITHIUM BATTERIES (SPIRAL)-CONTINUED

Features

- Voltage per single cell approximately twice that of conventional batteries**
 The rated voltage of the single cell type (CR2 and CR123A) is 3V, approximately twice that of dry batteries. With the pack type, the rated voltage is 6V, enabling high-speed charging for cameras and strobes.
- Designed for safety**
 Both the single cell type (CR2 and CR123A) and pack type batteries have a built-in element (PTC element) for protecting batteries from external shorting. They are also provided with an burst-proof seal structure which allows the safe release of the battery inner pressure.
- Excellent storability with minimal deterioration**
 Minimal deterioration is not necessarily an inherent feature of lithium batteries. It is achieved by using chemically stable materials and through superior production methodologies and sealing techniques. Panasonic cylindrical manganese dioxide lithium batteries show an annual deterioration rate as low as about 1.0% at room temperature, meeting the requirement for a room-temperature storage period of more than 10 years.
- Wide operational temperature range (-40°C to 70°C)**
 Organic solvents are used for the electrolyte in lithium batteries. Therefore, the solidifying point of this electrolyte is much lower than that of the aqueous solution type electrolyte in manganese batteries, etc., enabling the use of lithium batteries in low-temperature regions. Panasonic cylindrical type manganese dioxide lithium batteries (spiral type) are operable over a temperature range from -40°C to 70°C.
- Strong leakage resistance**
 The organic electrolyte liquid used in the lithium batteries shows minimal creep. This feature, and our unique sealing technique, give our lithium batteries very strong leakage resistance.
- Light weight**
 The use of metal lithium as the anode active material makes lithium batteries lighter than dry batteries of the same volume.

Applications

- Cameras, stroboscopes, shavers, electric tooth-brushes, lights, toys, etc.

When using the batteries for other purposes than cameras or using two or more batteries together, please consult our service staff in advance.

Specification Table

Model No.	JIS	IEC	Electrical characteristics 20°C			Dimensions (Max.)		Approx. weight (g)
			Nominal voltage (V)	Nominal *1 capacity (mAh)	Continuous drain Standard (mA)	Diameter (mm)	Height (mm)	
CR2	---	---	3	750	20	15.6	27.0	11.0
CR123A	---	CR17345	3	1300	20	17.0	34.5	17.0
2CR5	---	2CR5	6	1300	20	34.0 *2	45.0	38.0
CR-P2	---	CR-P2	6	1300	20	35.0 *2	36.0	37.0

* 1 Nominal capacity shown above is based on standard drain and cut off voltage down to 2.0 V at 20°C ...CR2/CR123A
 Nominal capacity shown above is based on standard drain and cut off voltage down to 4.0 V at 20°C ...2CR5/CR-P2

* 2 Width

Panasonic	Kodak	Energizer	Duracell	Rayovac	Varta
CR2	KCR2	EL1CR2	DLCR2	CR2R	CR2
CR123A	K123LA	EL123AP	DL123A	CR123R	CR123A
2CR5	KL2CR5	EL2CR5	DL245	2CR5R	2CR5
CR-P2	K223LA	EL233AP	DL223A	CR-P2R	CR-P2